

FIG. 1

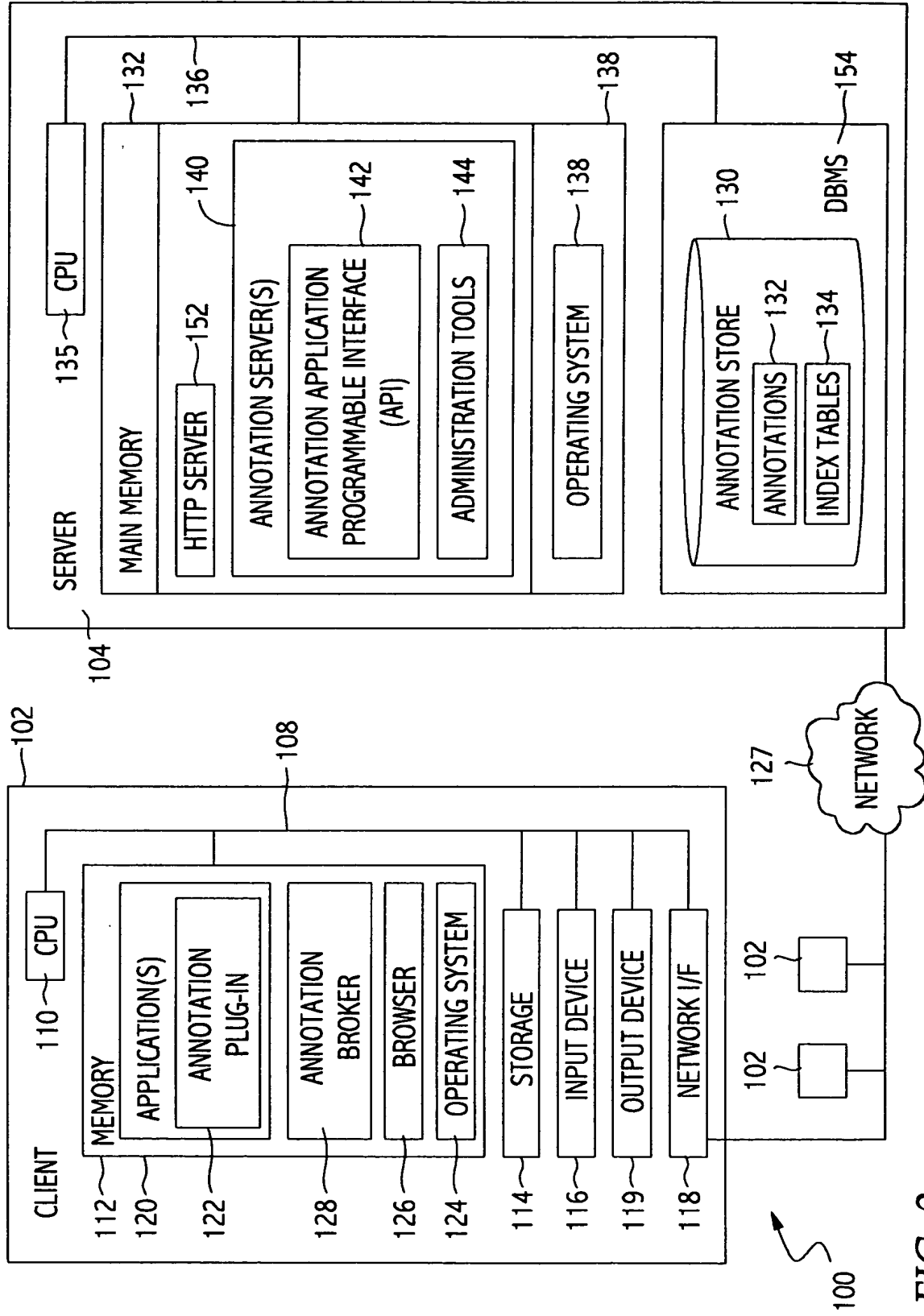


FIG. 2



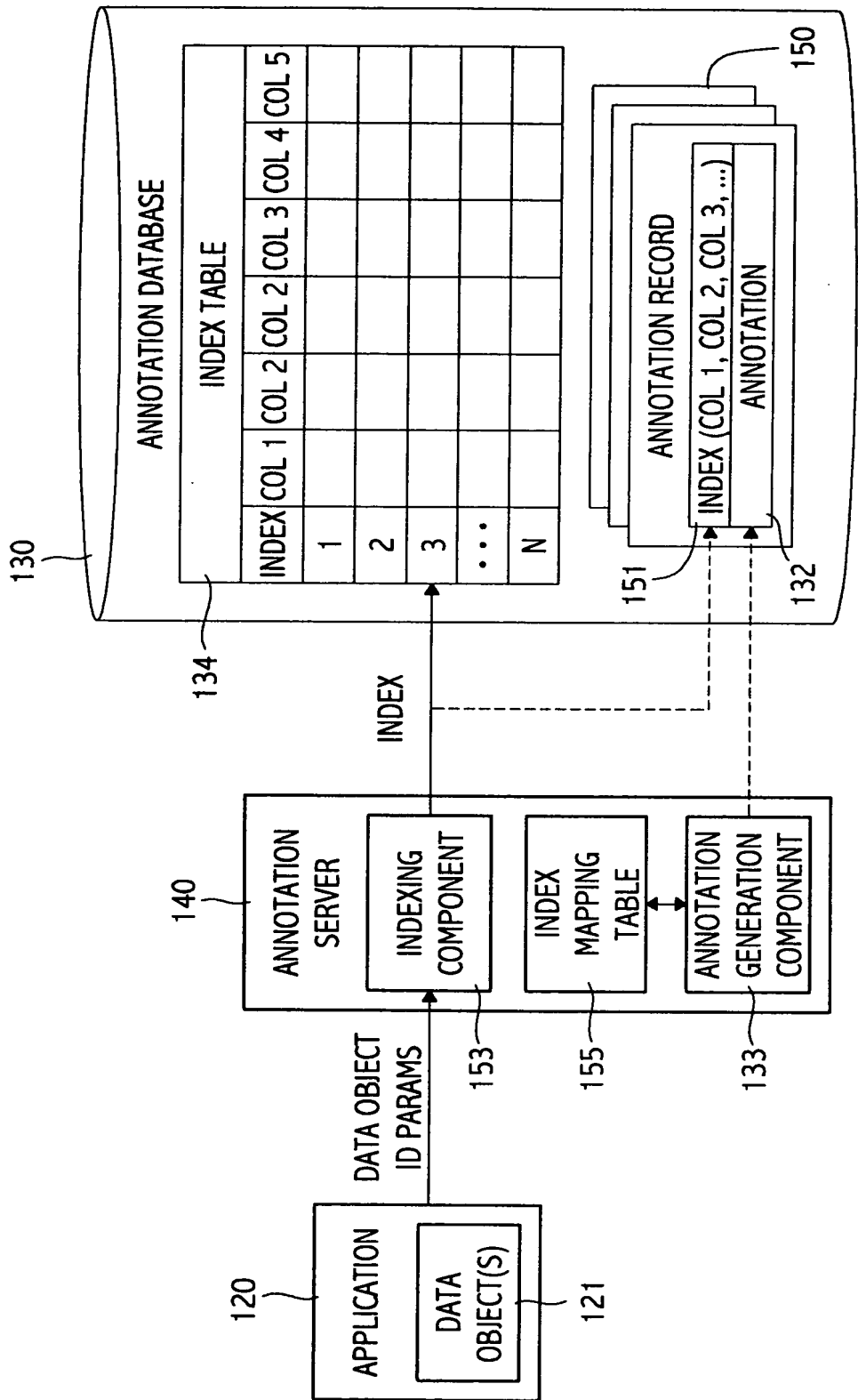


FIG. 3B

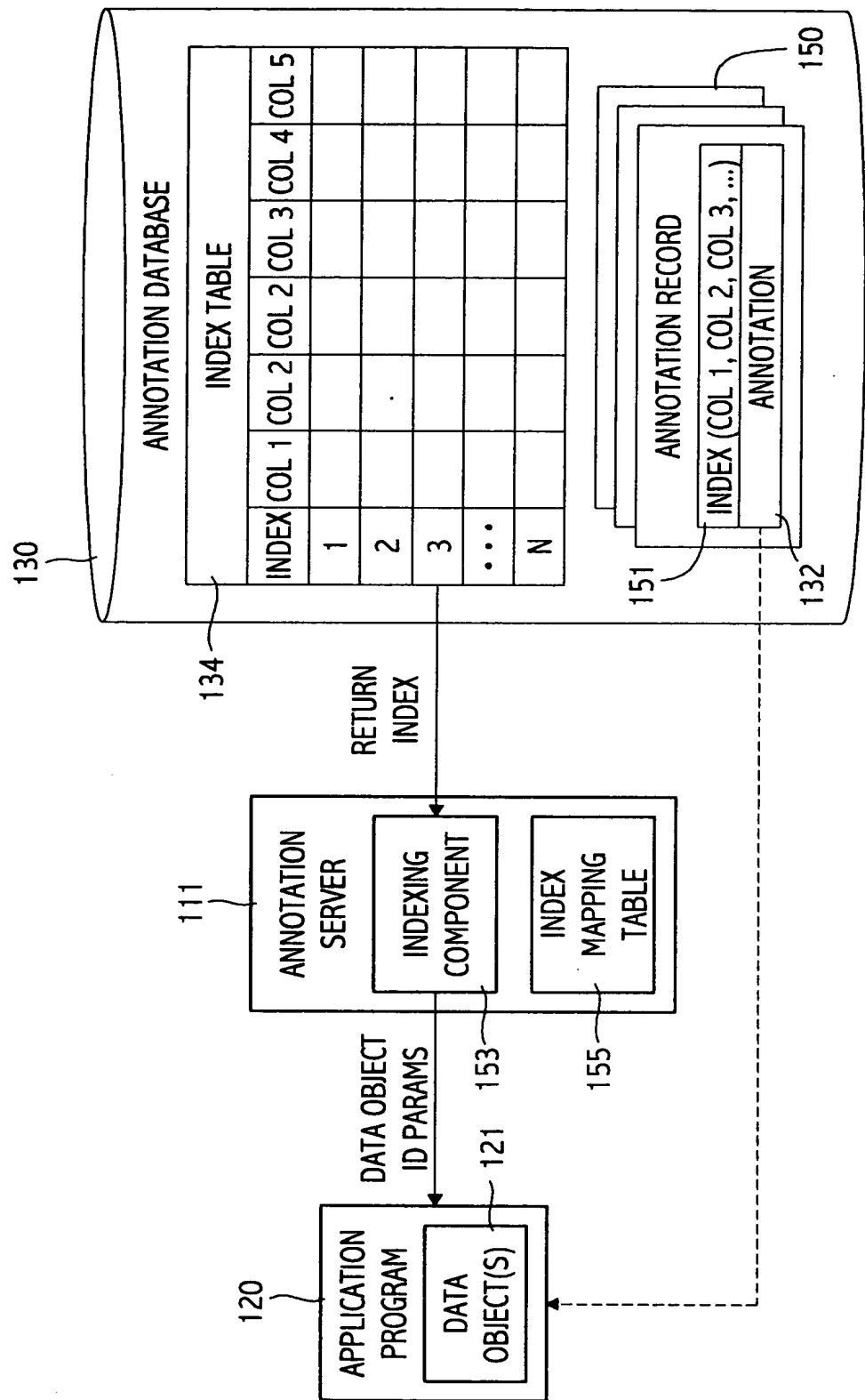



FIG. 3C



| API FUNCTION             | DESCRIPTION  |
|--------------------------|--|
| QueryRoles               | Get a list of roles for the user.  |
| SetRole                  | Set the active set of roles for the session.   |
| Query Structure Names    | Given the data source type and subtype of the target documents and all of the points in those documents the user wants to annotate, return the list of available structures. |
| QueryStructureTransforms | Given an annotation type returned from QueryStructureNames API, return an array of URLs to XSL transforms.   |
| QueryPoints              | Given a GUID, and list of DataSourceVersions, return a list of data sources and the points in the data sources.  |
| QueryAnnotationIDS       | Given a list of search criteria, return an array of annotation GUIDs that match the criteria.  |
| GetAnnotation            | Return the annotation data for a given GUID  |
| CreateAnnotation         | Create a new annotation with provided data and access control information  |
| UpdateAnnotation         | Replace specific fields in an annotation which results in a new version of the annotation  |
| DeleteAnnotation         | Delete (or hide) the specified annotation  |
| AddPoint                 | Take an existing Annotation and add a new annotated point to it  |
| DeletePoint              | Delete a point from an annotation  |
| QueryAllowedPointTypes   | Return the allowed point types and subtypes given a data source type and subtype   |
| QueryDataSourceSubtypes  | Return the configured data source subtypes given a data source type  |

FIG. 3D

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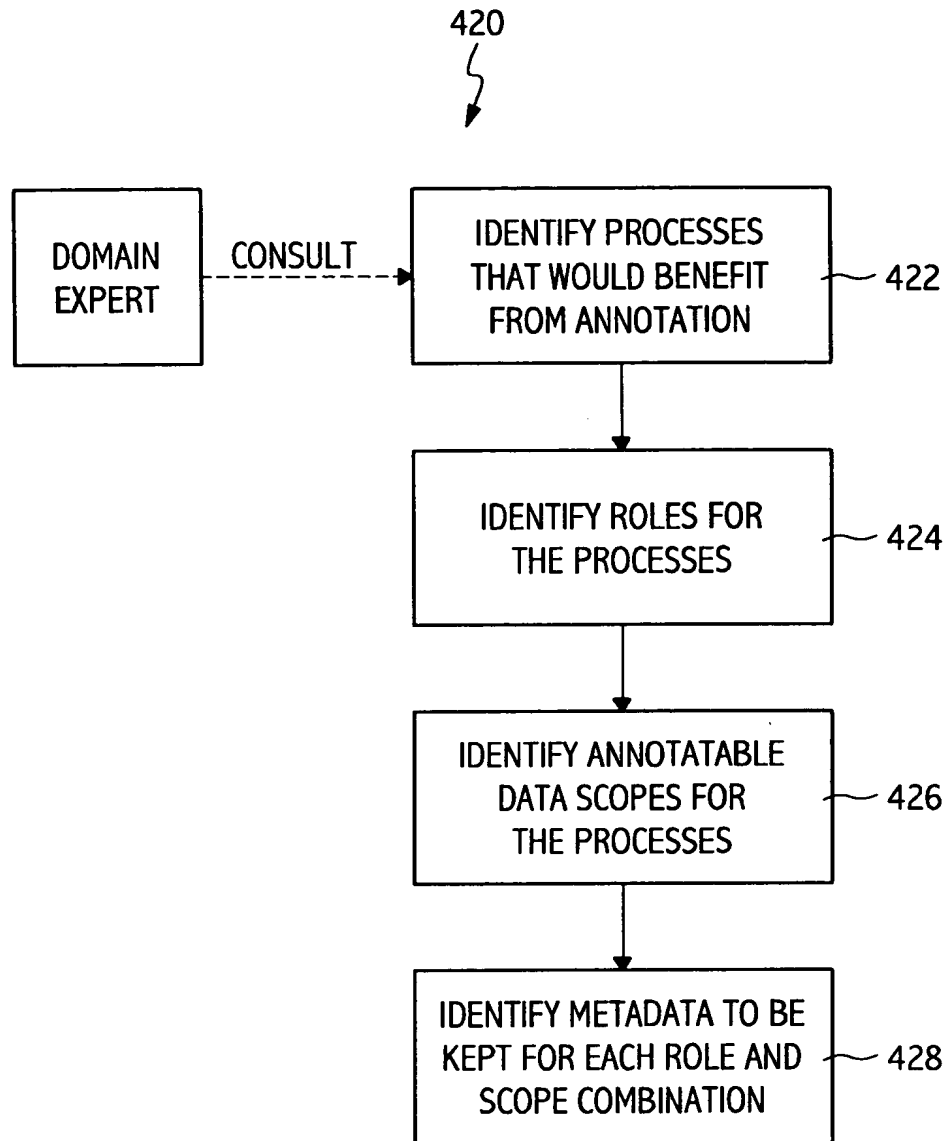


FIG. 4A

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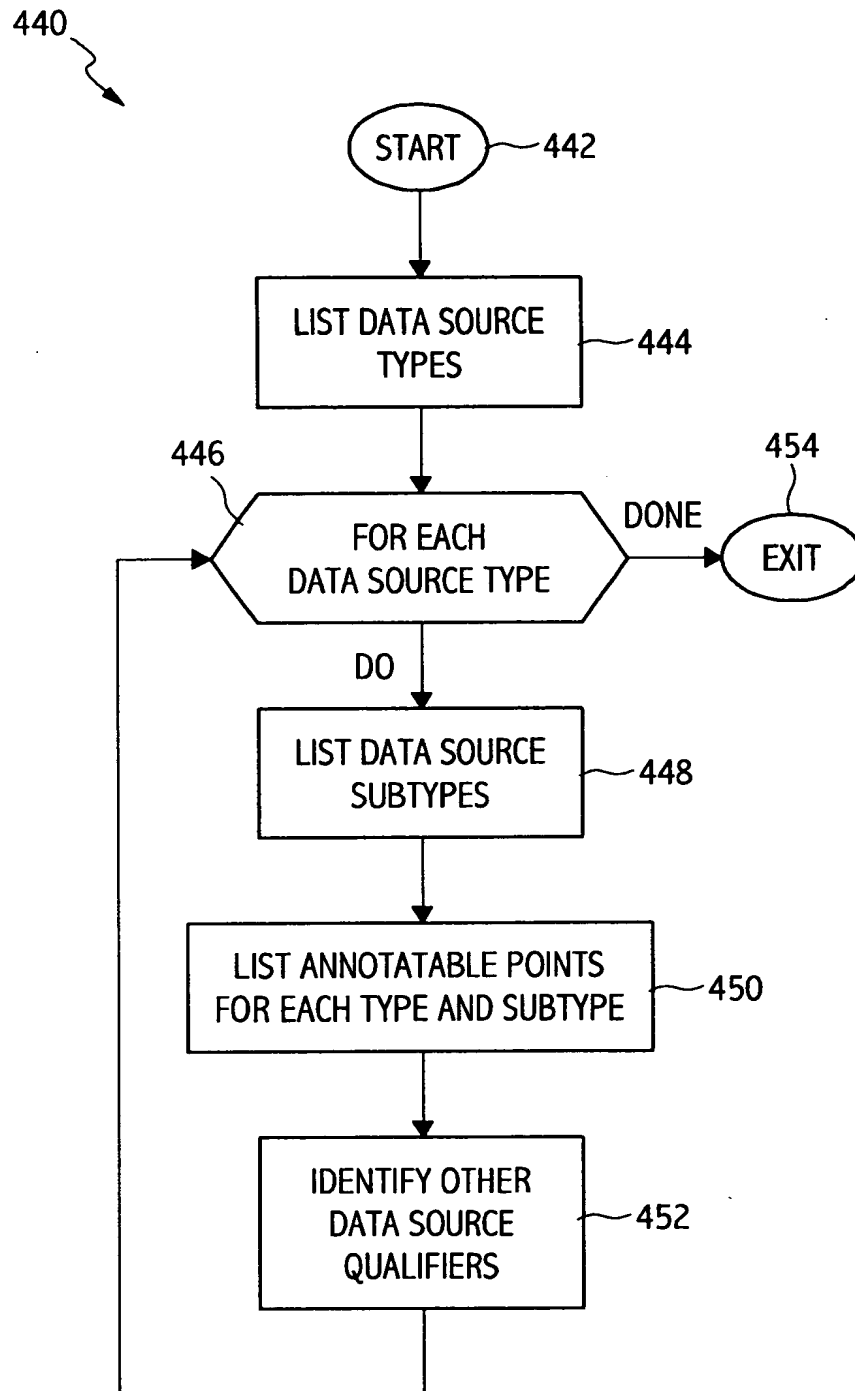


FIG. 4B



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| Data Source Type                   | Point Type | Meta Information  |
|------------------------------------|------------|---|
| Relational (and Excel)             | Table      | Table Name  |
|                                    | Column     | Table Name, Column Name                                 |
|                                    | Cell       | Table Name, Key, Column Name                            |
|                                    | Row        | Table Name, Key   |
| Word Document/HTML file            | Document   | Path  |
|                                    | Word Range | Path, Start character, End character                    |
| Spottfire File                     | Spot       | Context, View, Marked Record, Column                    |
|                                    | Cluster    | Context, View, Marked Record, Column                    |
|                                    | Row        | Context, View, Marked Record                            |
|                                    | Column     | Context, View, Column                                   |
|                                    | File       | Context, View   |
| Pdf<br>(requires Adobe Framemaker) | Text       | Page, Start word,<br>End word, Start of set, End of set |
|                                    | Graphic    | Page, Top, Left, Bottom, Right                          |

FIG. 4C

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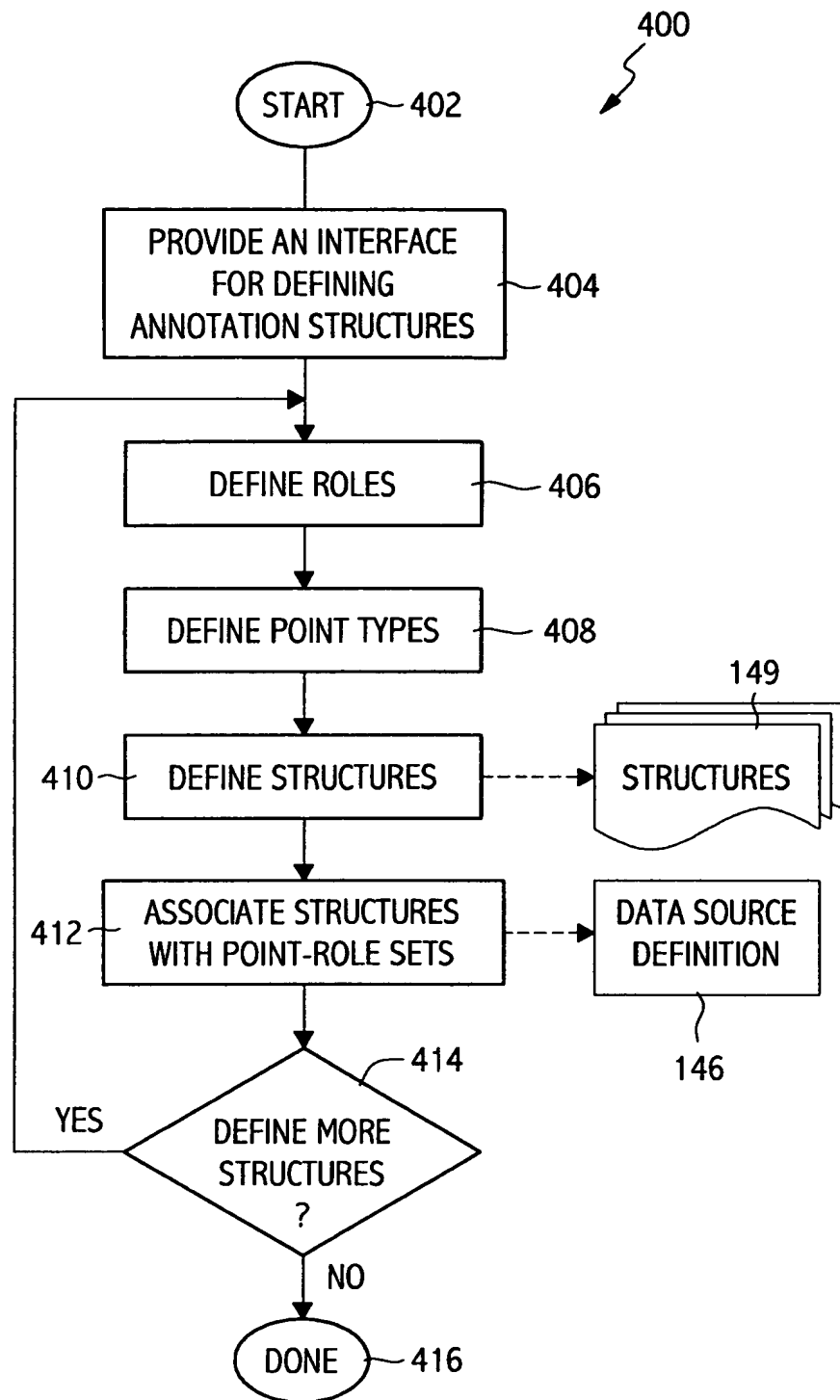


FIG. 4D

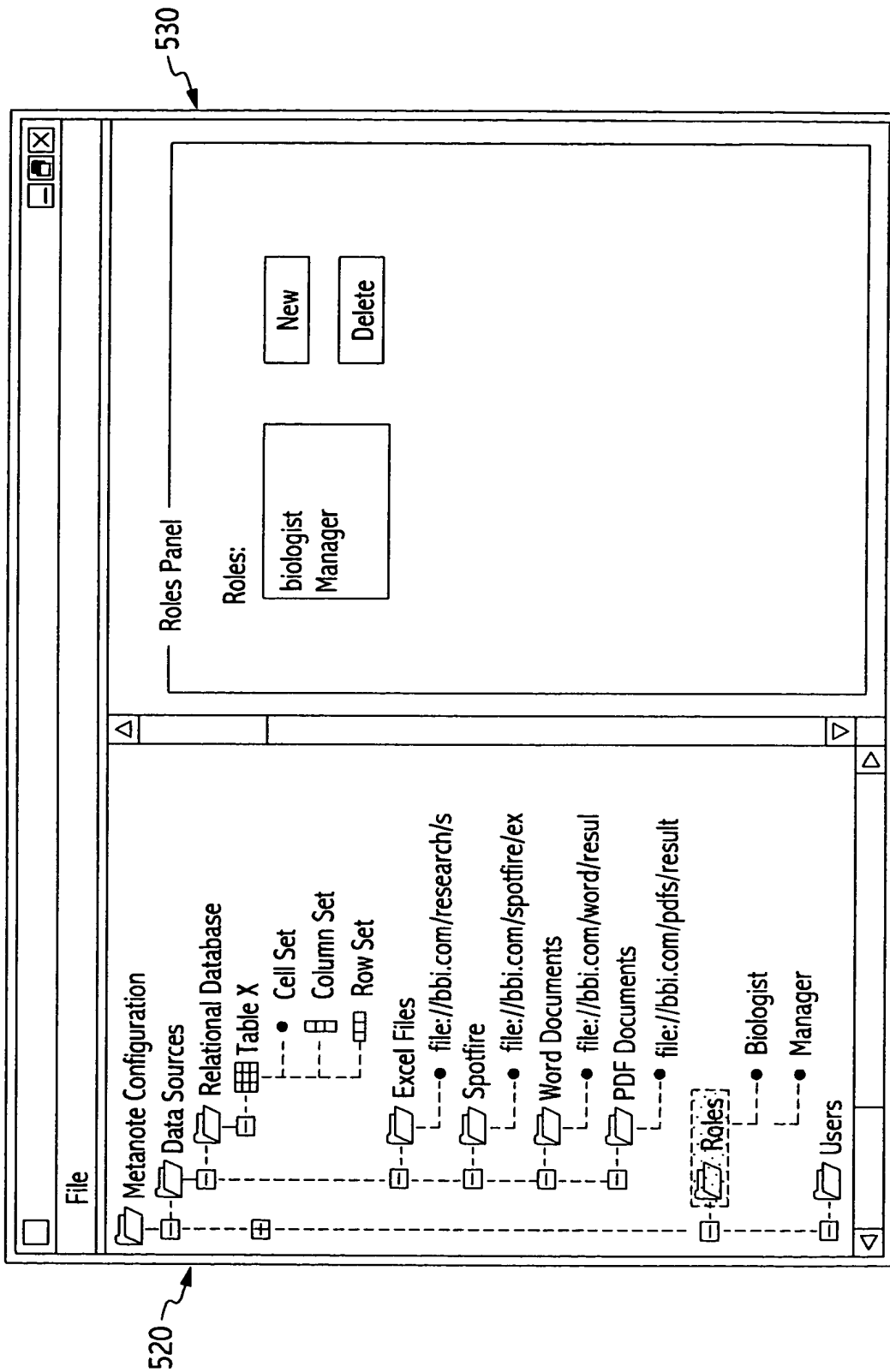


FIG. 5A

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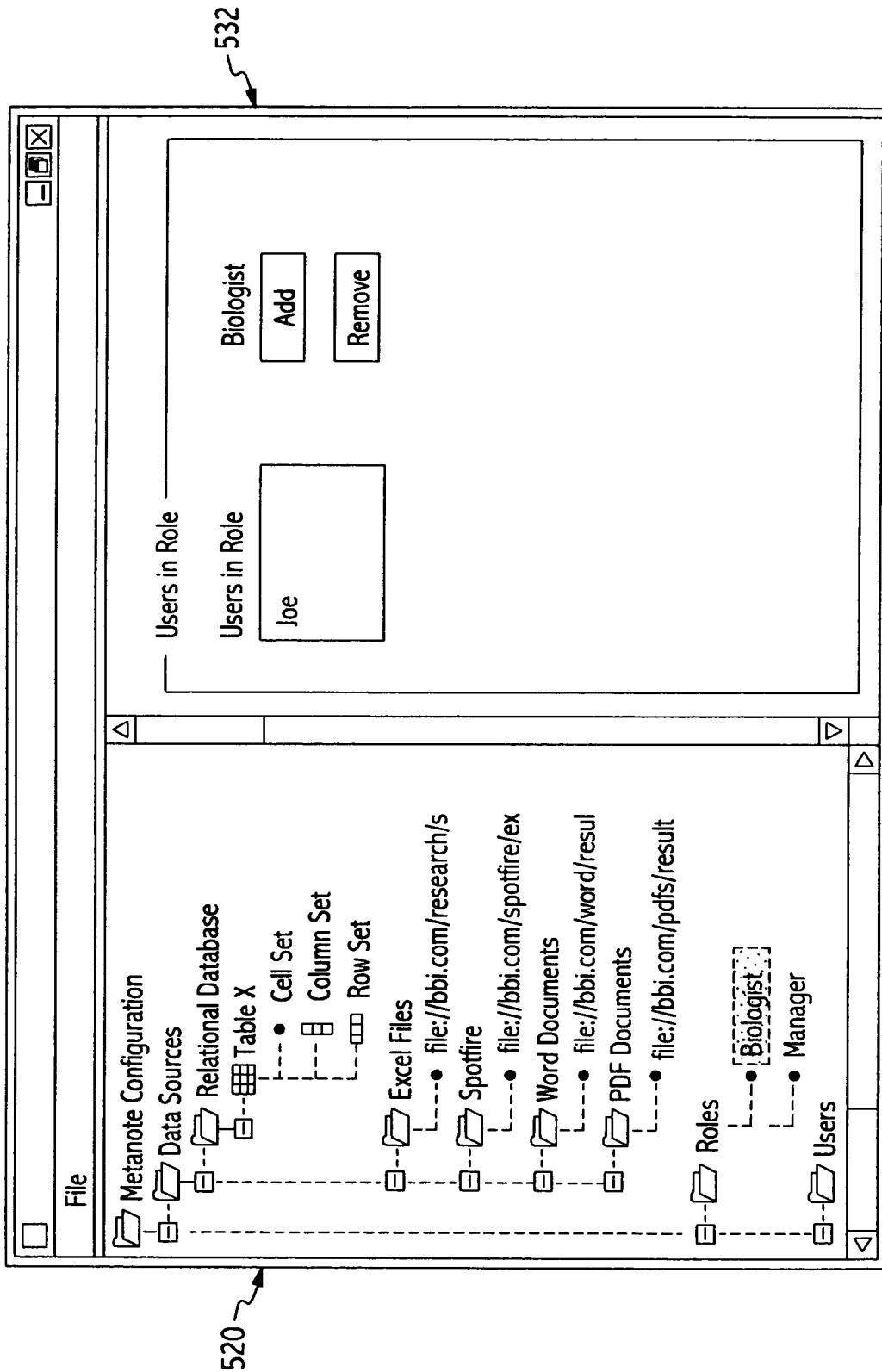


FIG. 5B

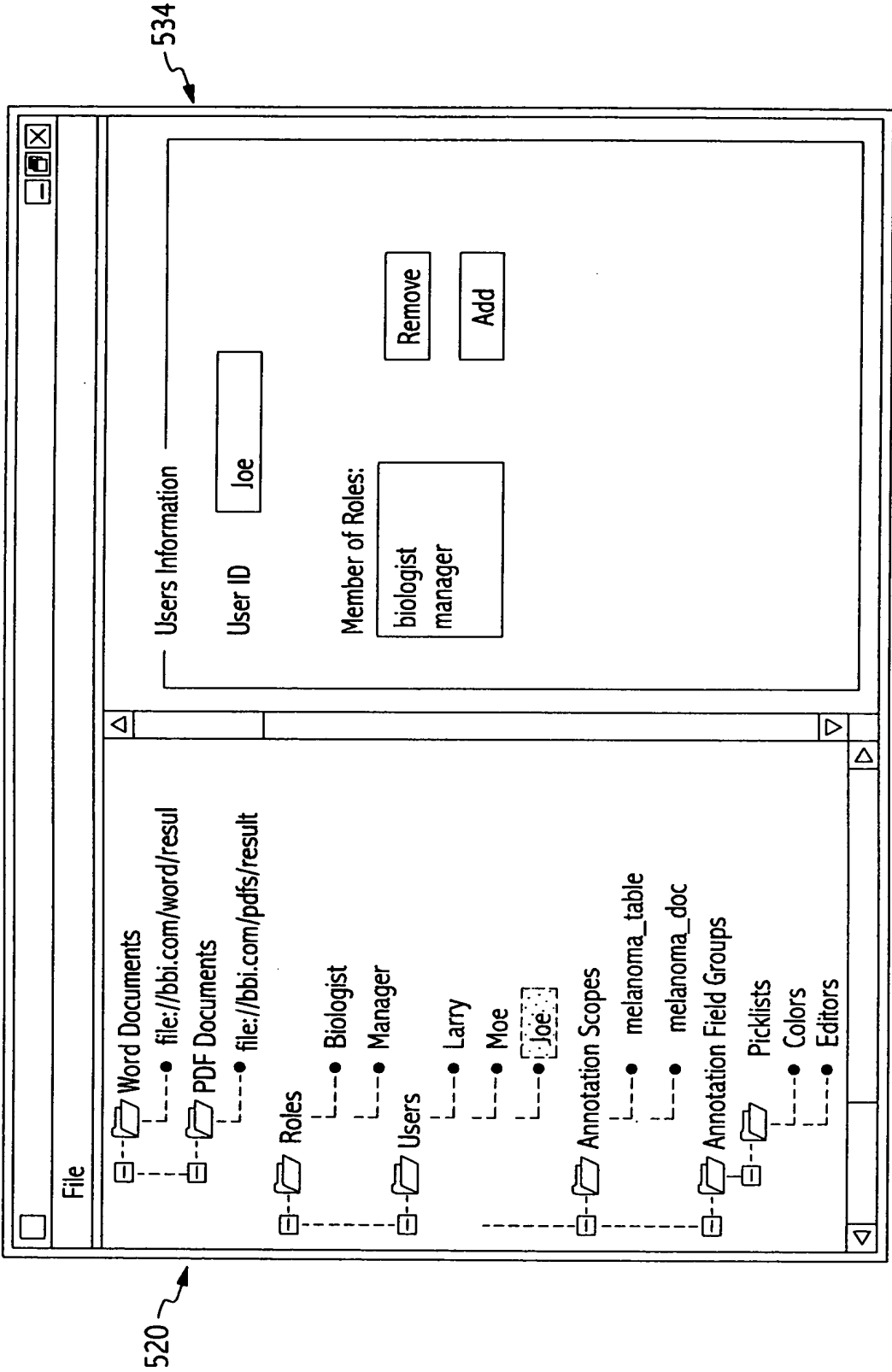


FIG. 5C

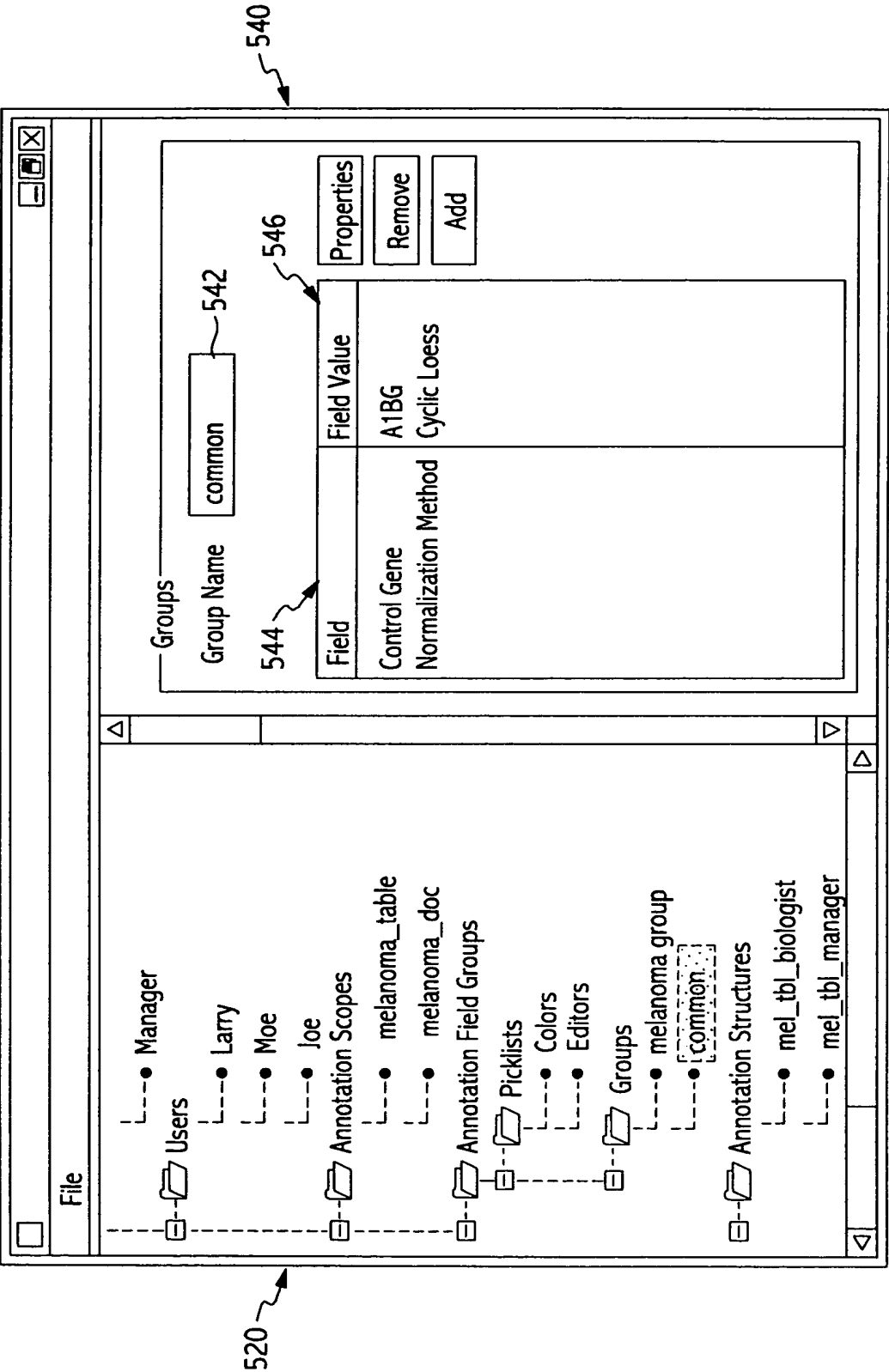


FIG. 5D

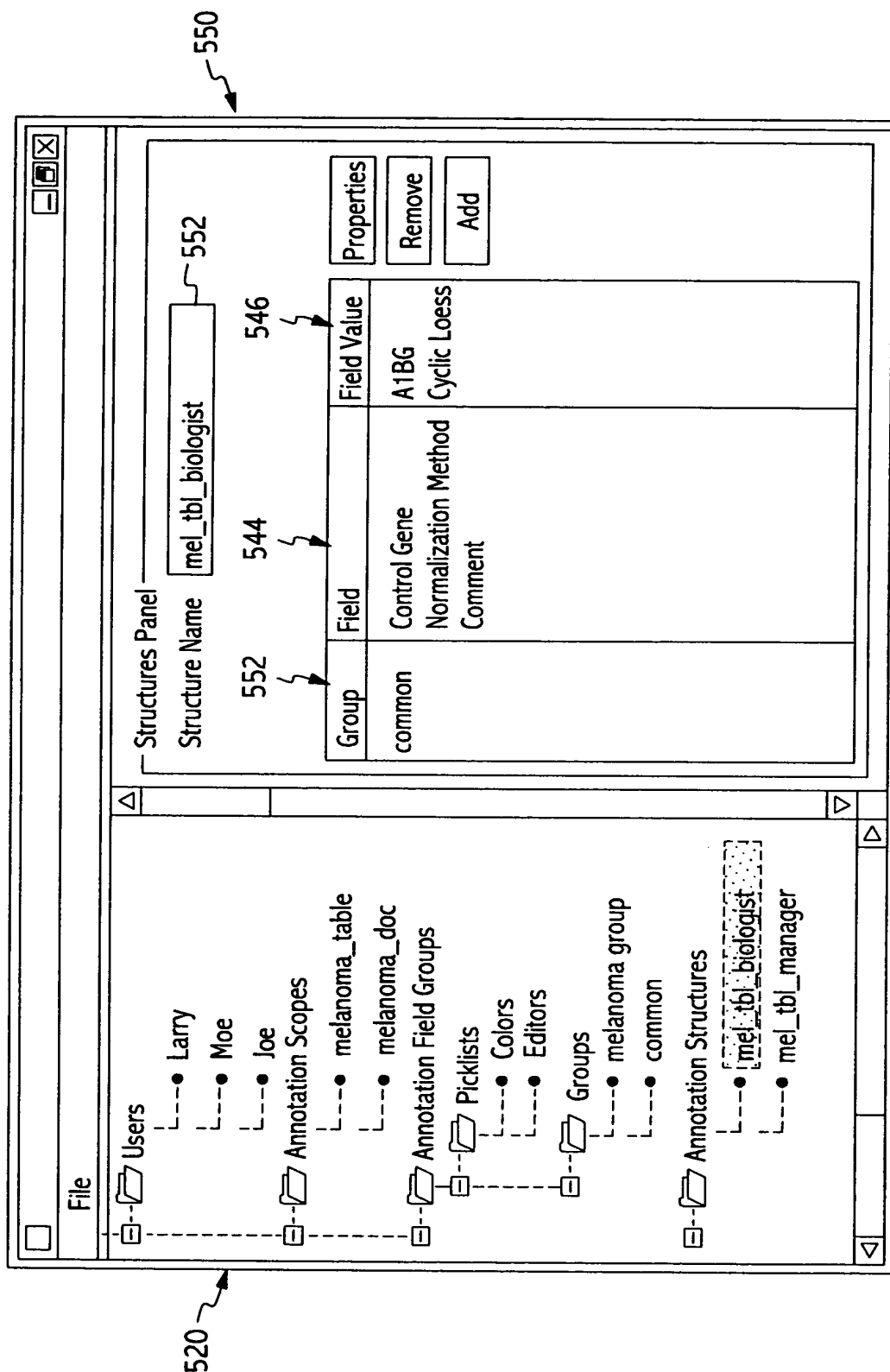


FIG. 5E

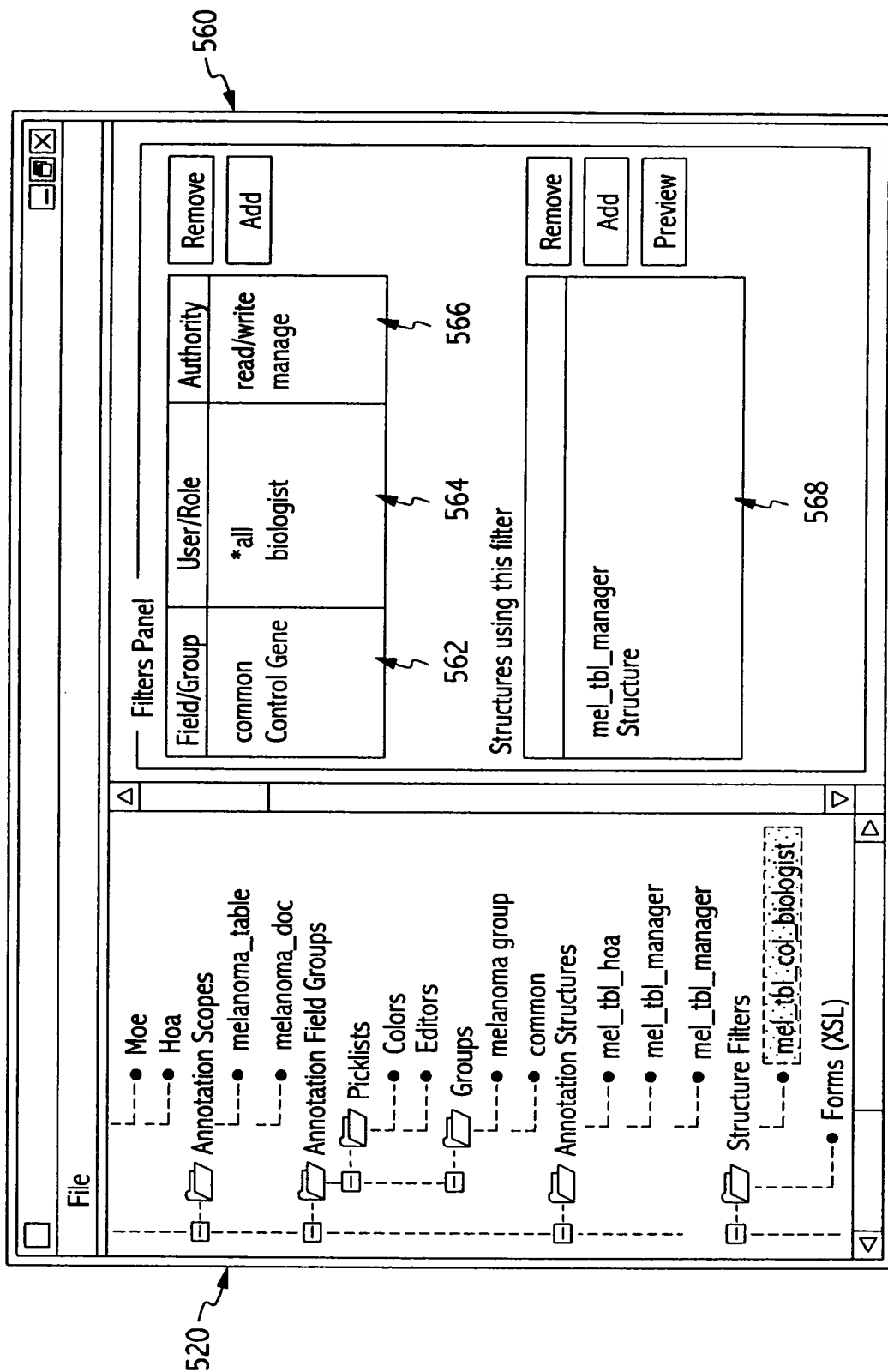


FIG. 5F



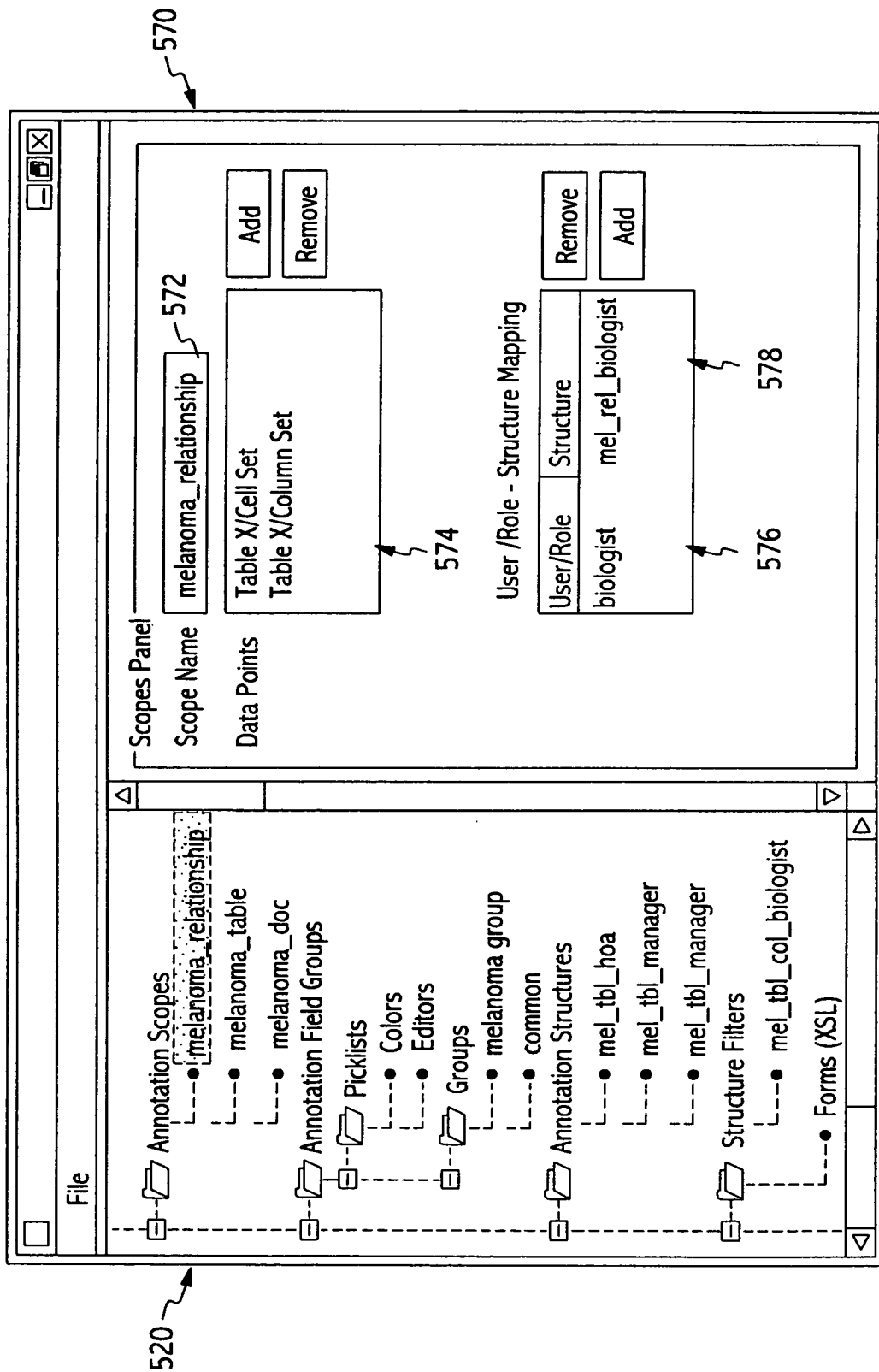


FIG. 5G

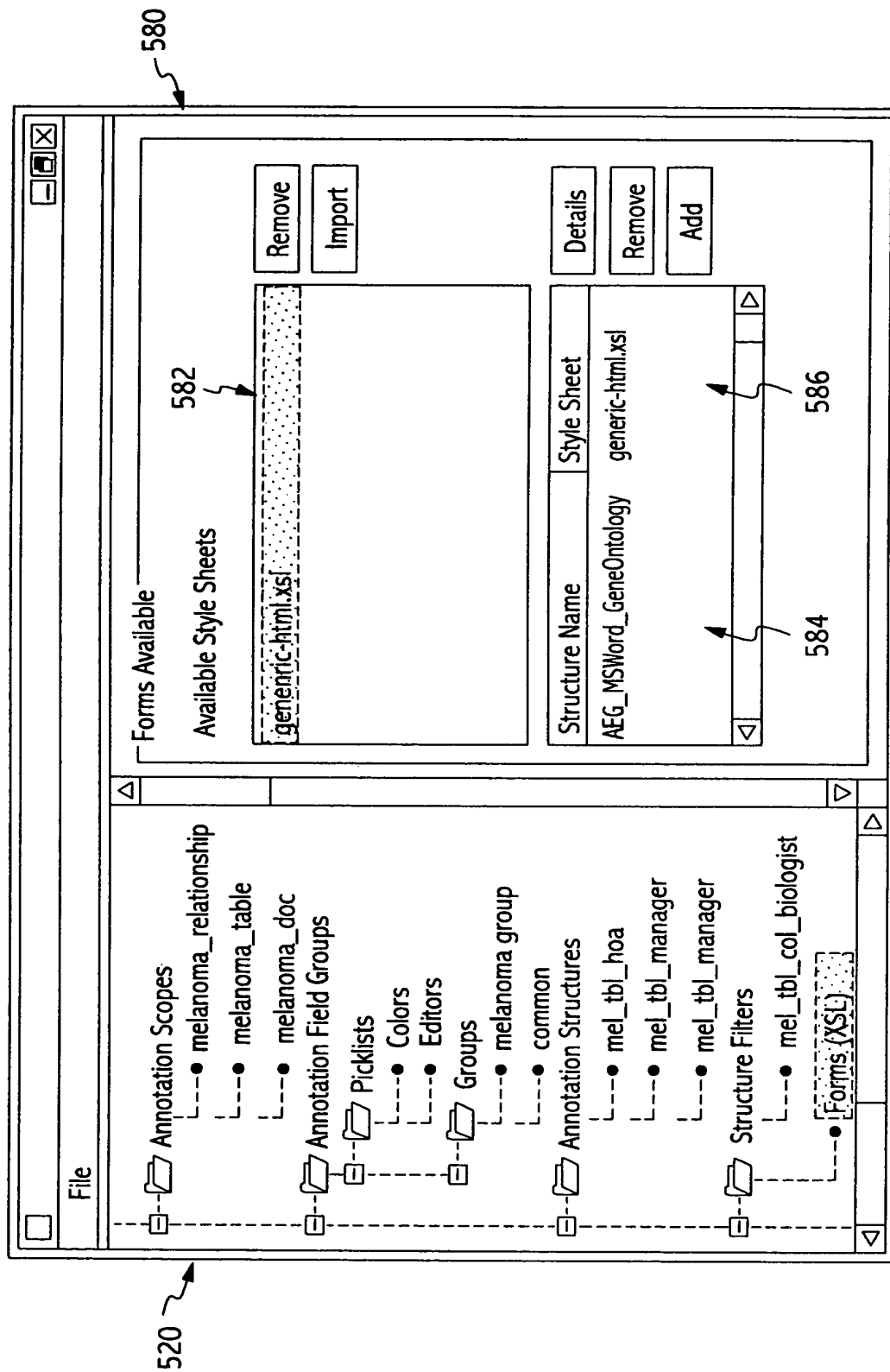


FIG. 5H

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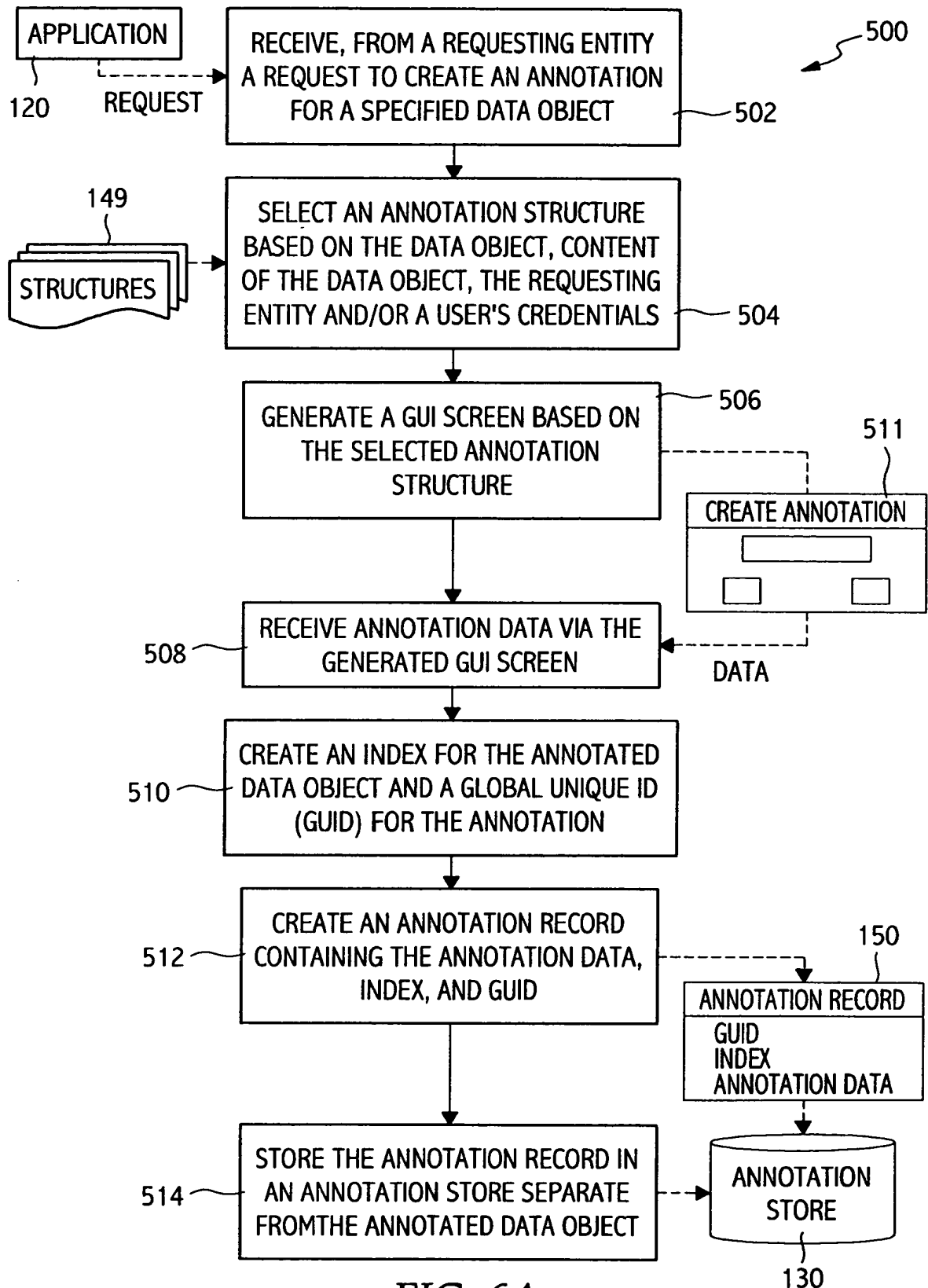


FIG. 6A

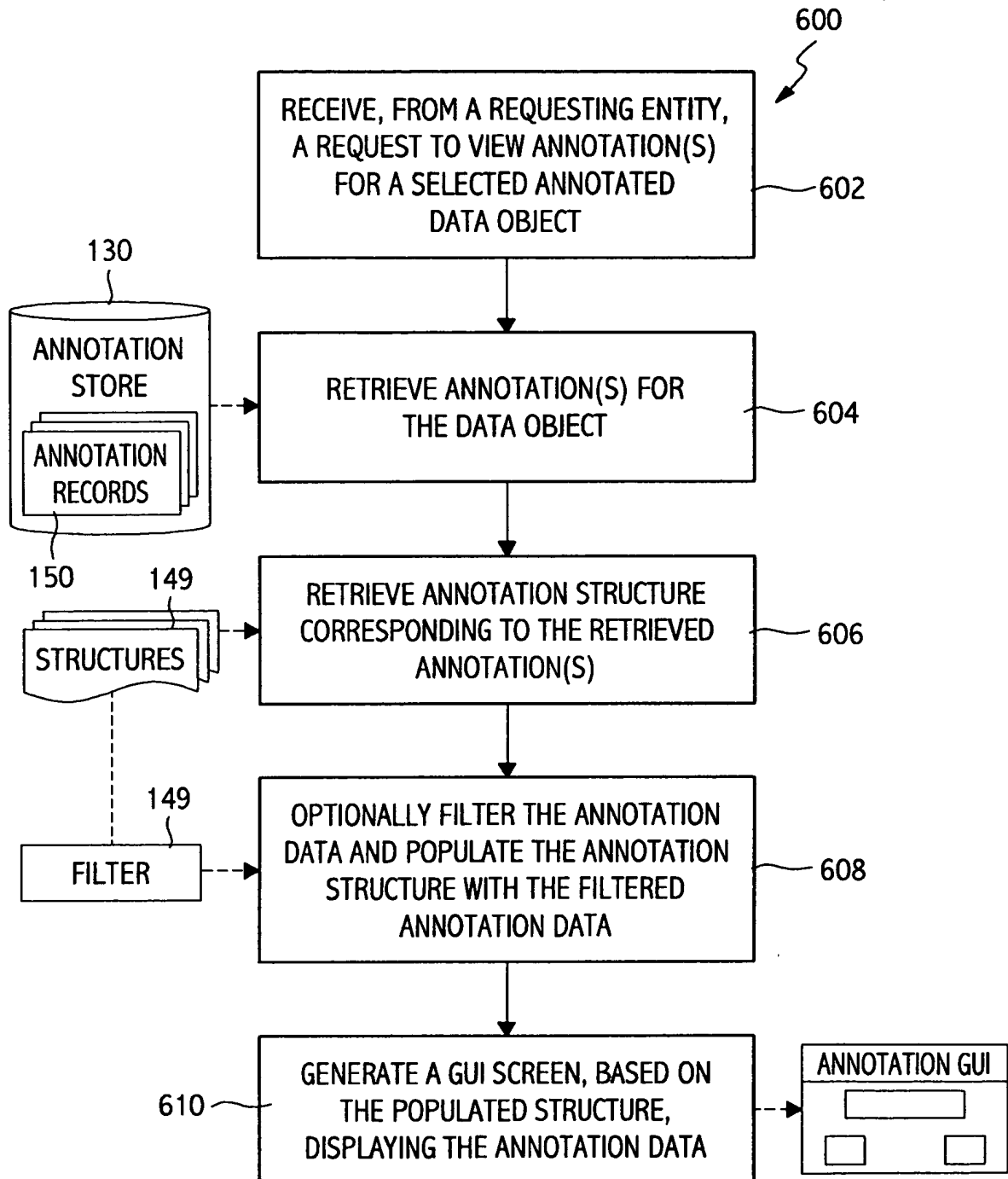


FIG. 6B

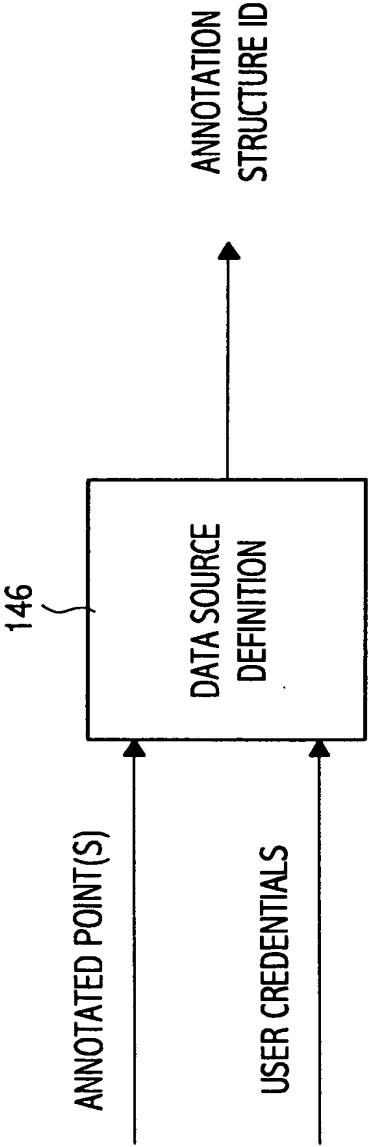


FIG. 7A

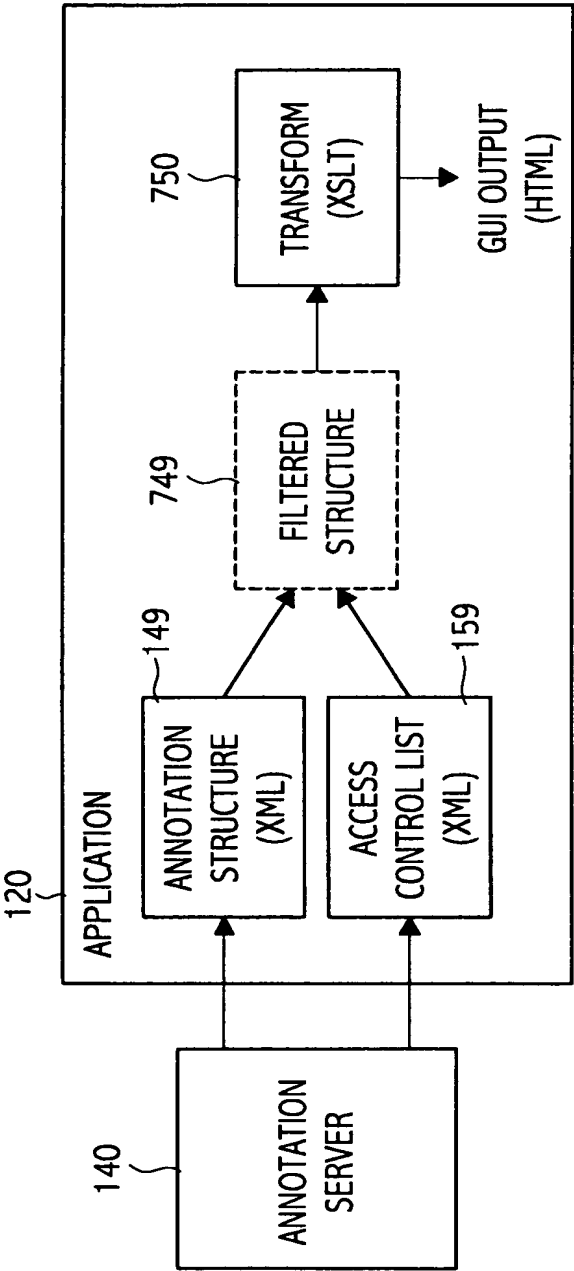


FIG. 7B

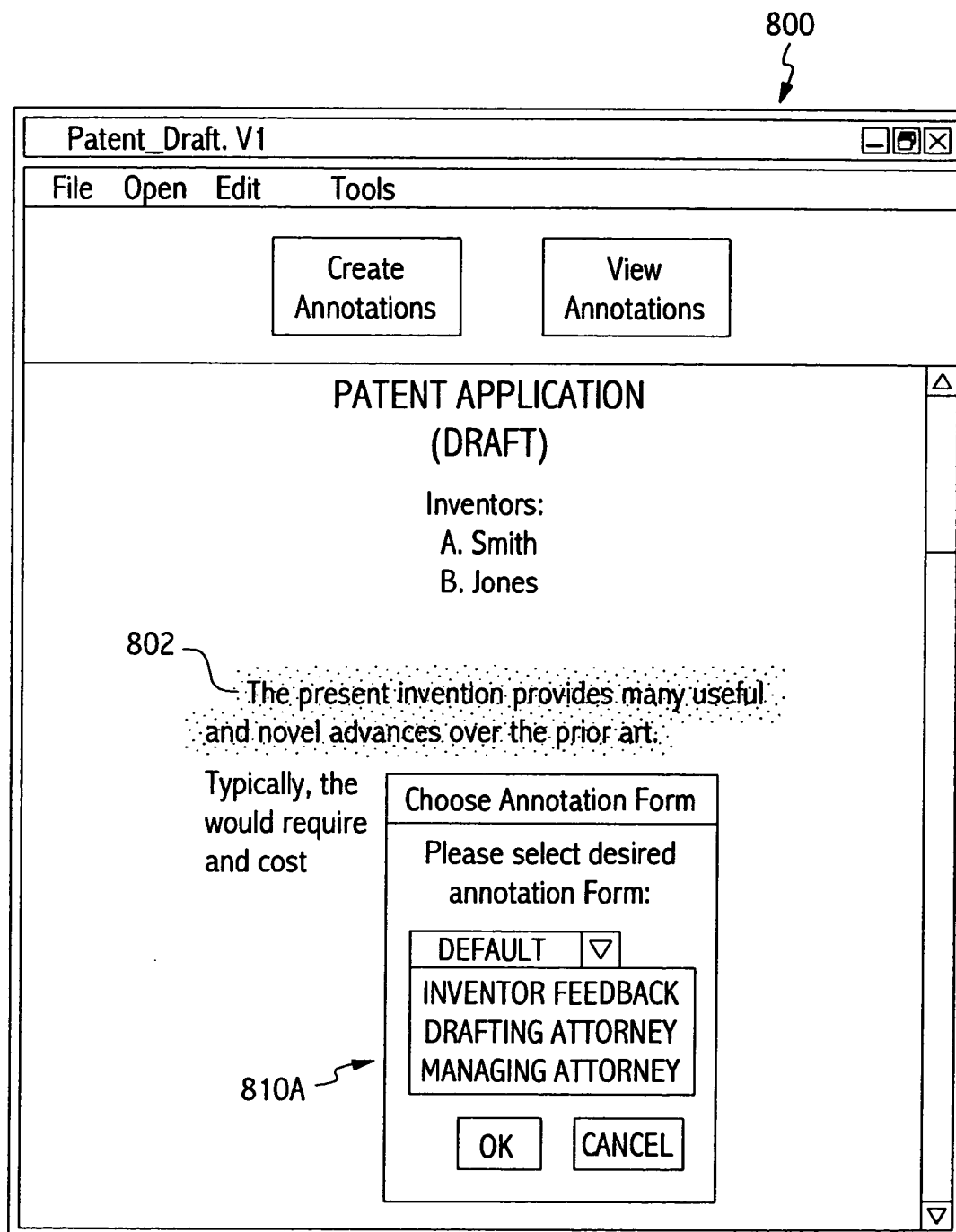


FIG. 8A

Patent\_Draft. V1

FORM: DEFAULT

DEFAULT DATA OR DESCRIPTION:

Quality: ☐ Good ☐ Acceptable ☒ Marginal ☐ Poor

Keywords:

Comments:

810B

812B

814B

FIG. 8B

Patent\_Draft. V1

FORM: INVENTOR FEEDBACK

DEADLINE 01/01/01

FEEDBACK

Status: ☐ Good ☒ Acceptable ☐ Needs Revision ☐ Needs More Info

Patent Attorney: C. Moore

Inventor: A. Smith

Inventor Comments:

810C

812C

814C

FIG. 8C

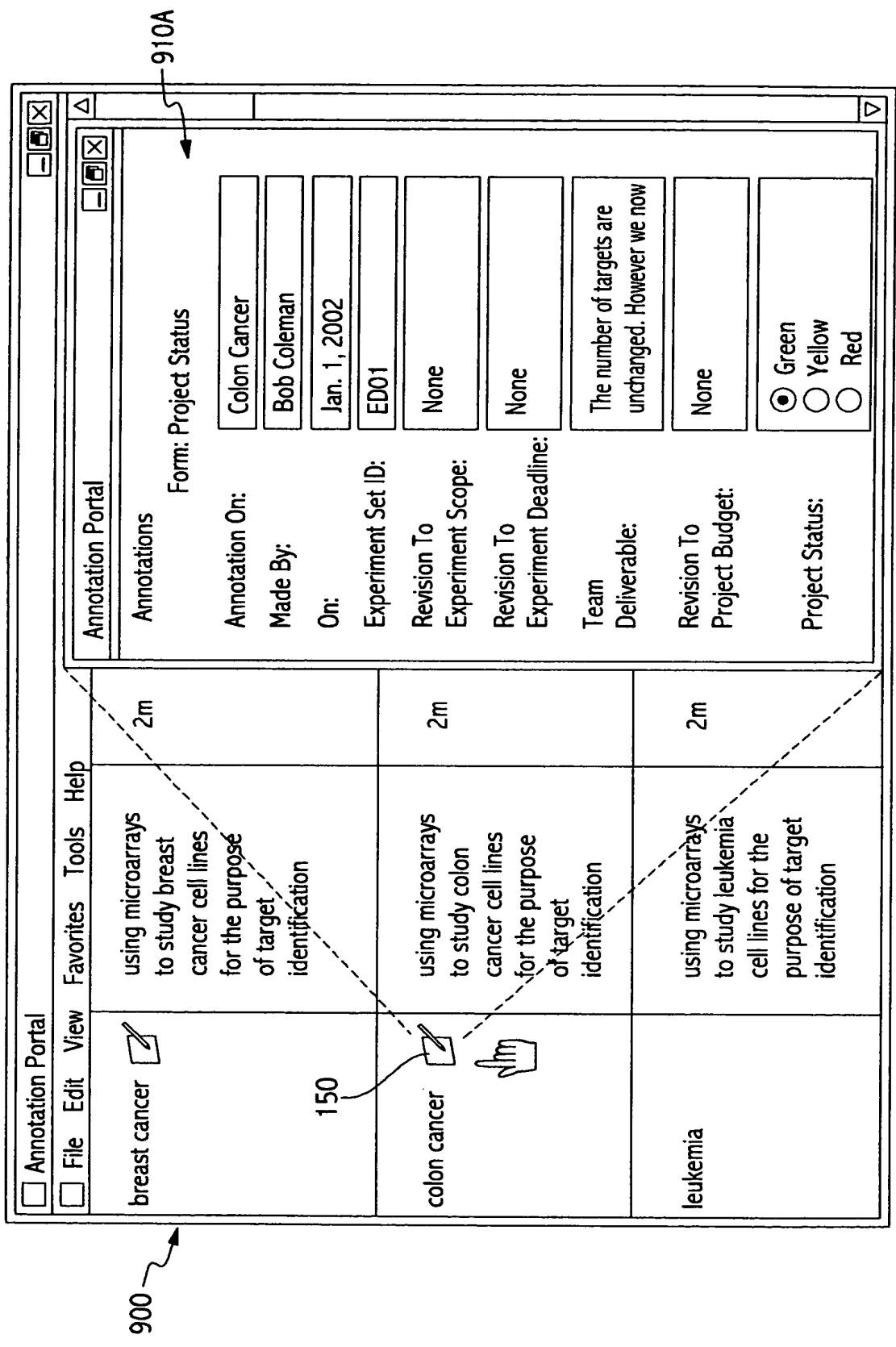


FIG. 9A



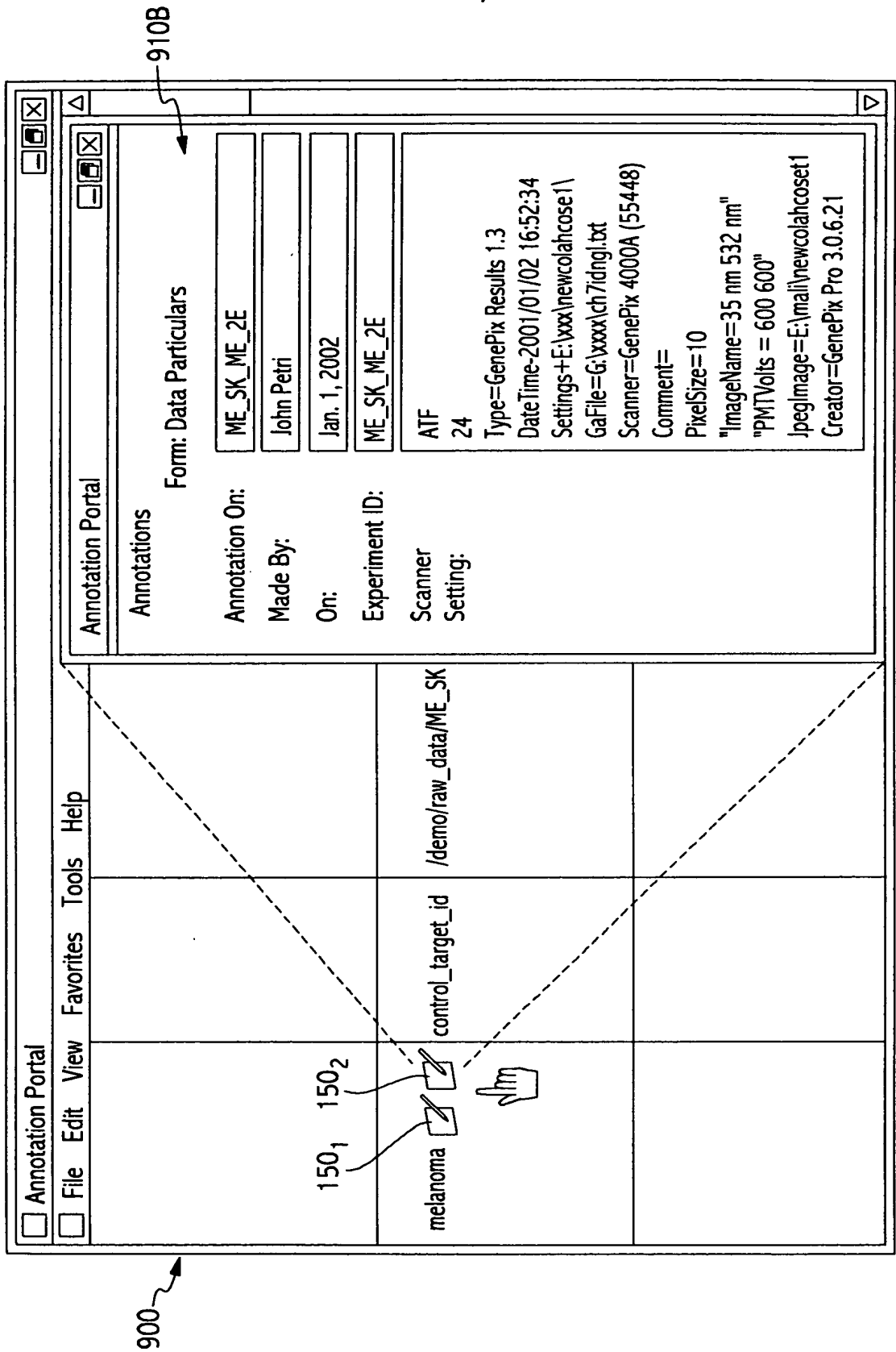


FIG. 9B

Annotation Portal

File Edit View Favorites Tools Help

Home

Welcome

Annotation Rules

Annotation Browser

User: 1bata

Search: Unnamed

SEARCH CONDITIONS

ACTION

NOT

Delete

Delete

☐

☐

(PROJECT\_NAME = target\_identificatio-01)

(Spotfire Row Relevance of Observation = Extremely High)

Add Condition

Group

Ungroup

Apply

Reset

OUTPUT

Change Data

Change Format

SEARCH

Run

Save

Show Query

Cancel

1040

1042

1044

FIG. 10A

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1000

The screenshot displays a web-based application window titled "Annotation Portal". The interface includes a menu bar with "File", "Edit", "View", "Favorites", "Tools", and "Help". Below the menu is a "Home" button with a dropdown arrow. The main content area is divided into sections: "Welcome", "Annotation Rules", "Annotation Browser" (showing "User: 1bata" and "Search: Unnamed"), and "ADD A SEARCH CONDITION".

The "ADD A SEARCH CONDITION" section contains two sub-sections:

- SEARCHABLE DATA FIELDS:** This section lists five radio button options, each paired with a text input field and a dropdown arrow:
  - ☐ Project: PROJECT\_ID
  - ☐ Column Name: PROJECT\_ID
  - ☐ Experiment: EXPT\_SET\_NAME
  - ☐ experiment\_set: EXPT\_SET\_ID
  - ☐ data\_sets: PROCESS\_ID
- SEARCHABLE ANNOTATION FIELDS:** This section lists five radio button options, each paired with a text input field and a dropdown arrow:
  - ☐ Annotation: Link ID
  - ☐ Annotation Data: GUID
  - ☐ Suggested Analysis Methods: Key
  - ☐ Reference Data: Key
  - ☐ Keyword Data: Key

At the bottom of the window are "Next" and "Cancel" buttons. A vertical scrollbar is visible on the right side of the window.

FIG. 10B

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☐ Annotation Portal

☐ File Edit View Favorites Tools Help

Home ▾

Welcome

Annotation Rules

Annotation Browser

User: 1bata

Search: Unnamed

ADD A SEARCH CONDITION

SEARCHABLE DATA FIELDS

☐ Project PROJECT\_ID ▾

☐ Column Name PROJECT\_ID ▾

☐ Experiment EXPT\_SET\_NAME ▾

☐ experiment\_set EXPT\_SET\_ID ▾

☐ data\_sets PROCESS\_ID ▾

SEARCHABLE ANNOTATION FIELDS

☐ Annotation Link ID ▾

☒ Annotation Data GUID ▾

☐ Suggested Analysis Methods Describe Gene

☐ Reference Data Functional Theme in Cluster

☐ Keyword Data Spotfire Row Relevance of Observation

Spotfire Row Comments

Observation

Spotfire Row Relevance of Observation

Next Cancel

FIG. 10C